

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/053540

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F16B5/06 F16B21/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B60K F16B F01N F02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 142 435 A (LODI FRANK) 7 November 2000 (2000-11-07)	1,6,7
Y	column 2, line 13 - column 3, line 5; figures	2-5,8-10
Y	US 2003/198506 A1 (YONEZAWA KENJI) 23 October 2003 (2003-10-23) paragraph '0005! - paragraph '0016!; figures	2-5,8-10
A	FR 1 298 250 A (BOSCH GMBH ROBERT) 6 July 1962 (1962-07-06) the whole document	1-10
A	US 5 193 262 A (HYDE JAMES P ET AL) 16 March 1993 (1993-03-16) cited in the application column 1, line 44 - column 2, line 38	1-10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents:

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P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

14 March 2005

Date of mailing of the international search report

29/03/2005

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Information on patent family members

International Application No

PCT/EP2004/053540

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 5193262	A	16-03-1993	US 5067575 A CA 2038386 A1 DE 69101252 D1 EP 0453139 A1	26-11-1991 17-10-1991 07-04-1994 23-10-1991